

Crediting Deli Meats in the National School Lunch Program and School Breakfast Program

This guidance applies to the U.S. Department of Agriculture's (USDA) meal patterns for grades K-12 and preschoolers (ages 1-4) in the National School Lunch Program (NSLP), School Breakfast Program (SBP), Seamless Summer Option (SSO) of the NSLP, and Afterschool Snack Program (ASP) of the NSLP. For information on the meal patterns and crediting foods for grades K-12, visit the Connecticut State Department of Education's (CSDE) [Meal Patterns for Grades K-12 in School Nutrition Programs](#) and [Crediting Foods in School Nutrition Programs](#) webpages. For information on the meal patterns and crediting foods for preschoolers, visit the CSDE's [Meal Patterns for Preschoolers in School Nutrition Programs](#) webpage.

Quantities for the meat/meat alternates component are indicated as ounce equivalents in the NSLP meal pattern for grades K-12; and as ounces in the ASP meal pattern for grades K-12, and the NSLP and ASP meal patterns for preschoolers. The amount that credits as 1 ounce equivalent or 1 ounce of meat/meat alternates is the same. This document refers to ounce equivalents for simplicity.



Deli meats (such as turkey, chicken, ham, roast beef, salami, and bologna) credit as the meat/meat alternates component in the meal patterns for school nutrition programs. School food authorities (SFAs) must ensure that the serving of deli meat provides the required amount of the meat/meat alternates component for meals and ASP snacks. The amount of deli meat that provides 1 ounce equivalent of the meat/meat alternates component depends on the product's ingredients, and varies greatly between different brands and types.

- **100 percent meat:** Products that are 100 percent meat without added liquids (e.g., water or broth), binders, and extenders credit on an ounce-per-ounce basis (actual serving weight). For example, 1 ounce of deli meat that is 100 percent meat credits as 1 ounce equivalent of the meat/meat alternates component.
- **Added liquids, binders, and extenders:** Products with added liquids, binders, and extenders credit based on the percentage of meat in the product formula. A 1-ounce serving of these products does **not** credit as 1 ounce equivalent of the meat/meat alternates component. The crediting depends on the amount of meat per serving, excluding added ingredients. For example, one brand of deli meat might require 1.6 ounces to credit as 1 ounce equivalent of the meat/meat alternates component, while another brand might require 2.3 ounces to credit as 1 ounce equivalent of the meat/meat alternates component.



Crediting Deli Meats in the NSLP and SBP

Required Crediting Documentation

SFAs must obtain appropriate crediting documentation for all deli meats with added liquids, binders, and extenders. Acceptable documentation includes 1) an original Child Nutrition (CN) label from the product carton, or a photocopy or photograph of the CN label shown attached to the original product carton; or 2) a product formulation statement (PFS) signed by an official of the manufacturer stating the amount of the meat/meat alternates component contained in one serving of the product.

For more information, refer to the CSDE's resources, [Child Nutrition \(CN\) Labeling Program](#), [Product Formulation Statements](#), and [Accepting Processed Product Documentation in the NSLP and SBP](#), and the USDA's resources, [Product Formulation Statement \(Product Analysis\) for Meat/Meat Alternate Products](#) and [Tips for Evaluating a Manufacturer's Product Formulation Statement](#). For additional guidance, visit the "Crediting Commercial Processed Products in School Nutrition Programs" and "Crediting Foods in Preschool Menus" sections of the CSDE's school nutrition programs webpages.

Liquids, Binders, and Extenders

The ingredients statements below show examples of turkey breast products that contain added liquid, binders, and extenders.

- Ingredients: Turkey breast, *water*, *modified cornstarch*, contains less than 2% of sodium lactate, salt, sugar, sodium phosphates, *carrageenan*, natural flavor, sodium diacetate, potassium chloride, sodium ascorbate, sodium nitrite, caramel color.
- Ingredients: Turkey breast meat, *turkey broth*, contains 2% or less salt, sugar, *carrageenan*, sodium phosphate, sodium acetate, sodium diacetate, flavoring.



Products with added liquids, binders, and extenders cannot credit as the meat/meat alternates component without a CN label or PFS stating the amount of the meat/meat alternates component per serving. Menu planners must review product labels and ingredients to determine if commercial products contain added liquids, binders, and extenders.

Table 1 lists examples of ingredients that are binders and extenders.

Crediting Deli Meats in the NSLP and SBP

Table 1. Examples of binders and extenders ¹

Agar-agar	Dried milk	Sodium caseinate
Algin (a mixture of sodium alginate, calcium carbonate and calcium gluconate/lactic acid)	Dry or dried whey	Soy flour (APP) ²
	Enzyme (rennet) treated calcium-reduced dried skim milk and calcium lactate	Soy protein concentrate (APP) ²
Bread	Gums, vegetable	Starchy vegetable flour
Calcium-reduced dried skim milk	Isolated soy protein (APP) ²	Tapioca dextrin
Carrageenan	Locust bean gum	Vegetable starch
Carboxymethyl cellulose (cellulose gum)	Methyl cellulose	Wheat gluten
Cereal	Modified food starch	Whey
	Reduced lactose whey	Whey protein concentrate (APP) ²
	Reduced minerals	Xanthan gum

¹ Binders and extenders are defined by the USDA's regulations for the Food Safety and Inspection Service (FSIS) (9 CFR 318.7).

² Products may contain these ingredients if they meet the USDA's requirements for alternate protein products (APPs). For more information, refer to the CSDE's resource, [Requirements for Alternate Protein Products in the NSLP and SBP](#).

Developing Recipes for Deli Meats

Different brands and types of deli meat credit differently. To ensure proper crediting, SFAs should develop standardized recipes for menu items that contain deli meats, such as sandwiches and other entrees. The SFA's standardized recipes should indicate the deli meat's contribution to the meat/meat alternates component based on a specific weight of a specific brand. For ease of portioning, the weight of the deli meat in the recipe should be rounded up to the nearest measure. For example, the recipe should list 1.2 ounces as 1.25 ounces and 1.6 ounces as 1.75 ounces.

If a SFA makes the same food item using different brands of deli meats that credit differently, the standardized recipe should include the specific weight of each brand. For example, if a school makes a turkey sandwich using either ABC brand turkey breast or XYZ brand turkey breast, the standardized recipe should include the required weight of ABC brand and the required weight of XYZ brand. Alternatively, the SFA could develop a separate standardized turkey sandwich recipe for each brand of deli meat. For information on standardized recipes, visit the "[Crediting Foods Prepared on Site for Grades K-12 in School Nutrition Programs](#)" or "[Crediting Foods Prepared on Site in Preschool Menus](#)" sections of the CSDE's school nutrition programs webpages.



Crediting Deli Meats in the NSLP and SBP

Comparing Cost

The product with the lowest cost per pound might not be the least expensive. SFAs should consider the cost per ounce equivalent of the meat/meat alternates component instead of the cost per ounce of meat. This provides a more accurate reflection of the product's cost in school meals. Table 2 shows a sample cost comparison.

Table 2. Cost comparison of sample deli meats				
Food Item	Price per pound	Price per ounce	Amount to provide 1 ounce equivalent of meat/meat alternates ¹	Cost of 1 ounce equivalent of meat/meat alternates
Sample product A: Deli meat with liquids, binders, or extenders	\$4.99	\$.31	1.7 ounces ²	\$.53
Sample product B: Deli meat without liquids, binders, or extenders	\$6.99	\$.44	1 ounce	\$.44
<p>¹ Products with added liquids, binders, and extenders require a CN label or PFS to document the amount of the meat/meat alternates component per serving. For more information, refer to the CSDE's resources, Child Nutrition (CN) Labeling Program and Product Formulation Statements.</p> <p>² This information would be obtained from the product's PFS.</p>				

Sample product A (deli meat with liquids, binders or extenders) costs \$2 less per pound than sample product B (deli meat without liquids, binders or extenders). However, when the SFA compares the cost based on 1 ounce equivalent of the meat/meat alternates component, a serving of sample product A costs 53 cents and a serving of sample product B costs 44 cents. Sample product A requires almost twice the weight of sample product B to provide 1 ounce equivalent of the meat/meat alternates component because of the added liquids, binders, and extenders.

Determining the cost per ounce equivalent of meat/meat alternates helps SFAs decide if the required meal pattern serving for a specific brand of deli meat is reasonable and cost effective.

Crediting Deli Meats in the NSLP and SBP

Considerations for Reducing Choking Risks for Young Children

Children younger than 4 are at the highest risk of choking. Large chunks or cubes of deli meats are choking hazards. Consider children's age and developmental readiness when deciding how to offer deli meats in preschool menus. This consideration is also important for children with a disability that requires dietary restrictions. For additional guidance, visit the “[Choking Prevention](#)” section of the CSDE's [Food Safety for Child Nutrition Programs](#) webpage.

Resources

Accepting Processed Product Documentation in the NSLP and SBP (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/AcceptDocumentationSNP.pdf>

Afterschool Snack Program (CSDE webpage):

<https://portal.ct.gov/SDE/Nutrition/Afterschool-Snack-Program>

Afterschool Snack Program Handbook (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/ASP/ASPHandbook.pdf>

Child Nutrition (CN) Labeling Program (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/CNlabel.pdf>

Crediting Commercial Meat/Meat Alternate Products in the NSLP and SBP (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/CreditCommercialMMASNP.pdf>

Food Buying Guide for Child Nutrition Programs (USDA):

<https://www.fns.usda.gov/tn/food-buying-guide-for-child-nutrition-programs>

Meal Patterns for Grades K-12 in School Nutrition Programs (CSDE webpage):

<https://portal.ct.gov/SDE/Nutrition/Meal-Patterns-School-Nutrition-Programs>

Meal Patterns for Preschoolers in School Nutrition Programs (CSDE webpage):

<https://portal.ct.gov/SDE/Nutrition/Meal-Patterns-Preschoolers-in-School-Nutrition-Programs>

Meat/Meat Alternates Component for Grades K-12 (CSDE webpage):

<https://portal.ct.gov/SDE/Nutrition/Crediting-Foods-in-School-Nutrition-Programs/Documents#MMA>

Meat/Meat Alternates Component for Grades K-12 in the ASP (CSDE webpage):

<https://portal.ct.gov/SDE/Nutrition/Afterschool-Snack-Program/Documents#MMAK12>

Meat/Meat Alternates Component for Preschoolers (CSDE webpage):

<https://portal.ct.gov/SDE/Nutrition/Meal-Patterns-Preschoolers-in-School-Nutrition-Programs/Related-Resources#MMA>

Crediting Deli Meats in the NSLP and SBP

Menu Planning Guide for Preschoolers in the NSLP, SBP, and ASP (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Preschool/MPGpreschool.pdf>

Menu Planning Guide for School Meals for Grades K-12 (CSDE):

<https://portal.ct.gov/SDE/Nutrition/Menu-Planning-Guide-for-School-Meals>

Menu Planning Resources for School Meals (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/MealPattern/MenuPlanResourcesSchools.pdf>

Product Formulation Statement for Documenting Meats/Meat Alternates (M/MA) in Child Nutrition Programs (USDA):

https://www.fns.usda.gov/sites/default/files/resource-files/PFS_Meats-Meat_Alternates_Fillable_508.pdf

Product Formulation Statements (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/PFS.pdf>

Requirements for Alternate Protein Products in the NSLP and SBP (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/APPRrequirementsSNP.pdf>

Resources for the Preschool Meal Patterns (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Preschool/ResourcesPreschoolMealPattern.pdf>

Reviewer's Checklist for Evaluating Manufacturer Product Formulation Statements for Meat/Meat Alternates (USDA):

https://fns-prod.azureedge.net/sites/default/files/reviewer_checklist.pdf

Standardized Recipe Form for School Nutrition Programs (CSDE):

<https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/StandardizedRecipeSchools.doc>

Standardized Recipes (CSDE's Crediting Foods in School Nutrition Programs webpage):

<https://portal.ct.gov/SDE/Nutrition/Crediting-Foods-in-School-Nutrition-Programs/#StandardizedRecipes>

Tips for Evaluating a Manufacturer's Product Formulation Statement (USDA):

<https://fns-prod.azureedge.net/sites/default/files/resource-files/manufacturePFStipsheet.pdf>

Crediting Deli Meats in the NSLP and SBP



For more information, visit the CSDE's [Meal Patterns for Grades K-12 in School Nutrition Programs](#), [Crediting Foods in School Nutrition Programs](#), and [Meal Patterns for Preschoolers in School Nutrition Programs](#) webpages, or contact the [school nutrition programs staff](#) in the CSDE's Bureau of Health/Nutrition, Family Services and Adult Education, 450 Columbus Boulevard, Suite 504, Hartford, CT 06103-1841.

This document is available at <https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/CreditDeliSNP.pdf>.

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, sex, disability, age, or reprisal or retaliation for prior civil rights activity in any program or activity conducted or funded by USDA.

Persons with disabilities who require alternative means of communication for program information (e.g. Braille, large print, audiotape, American Sign Language, etc.), should contact the Agency (State or local) where they applied for benefits. Individuals who are deaf, hard of hearing or have speech disabilities may contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#), (AD-3027) found online at: [How to File a Complaint](#), and at any USDA office, or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by:

- (1) mail: U.S. Department of Agriculture
Office of the Assistant Secretary for Civil Rights
1400 Independence Avenue, SW
Washington, D.C. 20250-9410;
- (2) fax: (202) 690-7442; or
- (3) email: program.intake@usda.gov.

This institution is an equal opportunity provider.

The Connecticut State Department of Education is committed to a policy of equal opportunity/affirmative action for all qualified persons. The Connecticut Department of Education does not discriminate in any employment practice, education program, or educational activity on the basis of age, ancestry, color, criminal record (in state employment and licensing), gender identity or expression, genetic information, intellectual disability, learning disability, marital status, mental disability (past or present), national origin, physical disability (including blindness), race, religious creed, retaliation for previously opposed discrimination or coercion, sex (pregnancy or sexual harassment), sexual orientation, veteran status or workplace hazards to reproductive systems, unless there is a bona fide occupational qualification excluding persons in any of the aforementioned protected classes.

Inquiries regarding the Connecticut State Department of Education's nondiscrimination policies should be directed to: Levy Gillespie, Equal Employment Opportunity Director/Americans with Disabilities Coordinator (ADA), Connecticut State Department of Education, 450 Columbus Boulevard, Suite 505, Hartford, CT 06103, 860-807-2071, levy.gillespie@ct.gov.